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FILE COVERS 1907 - 24 Dec 2008 VOL 149 ISS 26
FILE LAST UPDATED: 23 Dec 2008 (20081223/ED)

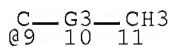
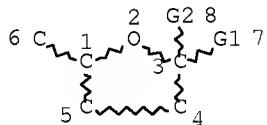
HCAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

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This file contains CAS Registry Numbers for easy and accurate substance identification.

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=> d stat que 111
L1 STR

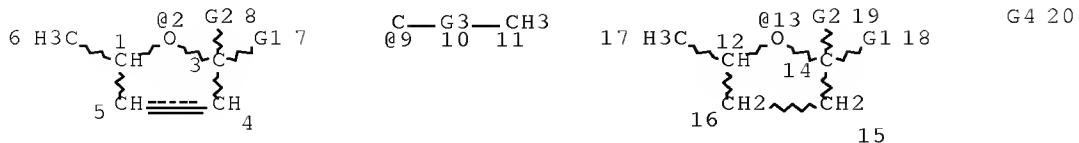


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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 11

STEREO ATTRIBUTES: NONE

L3 1749 SEA FILE=REGISTRY SSS FUL L1
 L4 STR



VAR G1=ME/ET/I-PR/N-PR
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 VAR G4=2/13
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GRAPH ATTRIBUTES:
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 NUMBER OF NODES IS 20

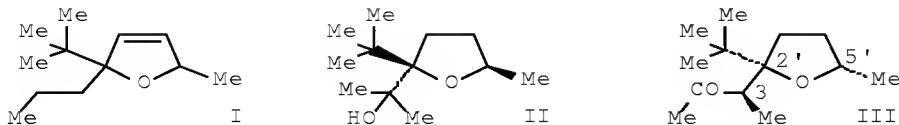
STEREO ATTRIBUTES: NONE

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 L10 477297 SEA FILE=HCAPLUS ABB=ON PLU=ON ("ODOR AND ODOROUS SUBSTANCES"
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 ?ODOR? OR COSMETIC OR SHAMPOO OR DETERGEN? OR PERFUME OR
 CLEANER OR LAUNDRY
 L11 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L9 AND L10

=>
 =>

=> d ibib abs hitstr 111 1-3

L11 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2005:1174369 HCAPLUS Full-text
 DOCUMENT NUMBER: 144:51733
 TITLE: Design, synthesis and olfactory properties of
 2-substituted 2-tert-butyl-5-methyl-2,5-dihydrofuran-2-ones:
 Seco-derivatives of theaspiranes
 AUTHOR(S): Kraft, Philip; Popaj, Kasim; Abate, Agnese
 CORPORATE SOURCE: Givaudan Schweiz AG, Fragrance Research, Dubendorf,
 8600, Switz.
 SOURCE: Synthesis (2005), (16), 2798-2809
 CODEN: SYNTBF; ISSN: 0039-7881
 PUBLISHER: Georg Thieme Verlag
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 144:51733
 GI

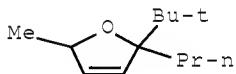


AB Two seco-theaspiranes with pronounced blackcurrant notes, 2-tert-butyl-5-methyl-2-propyl-2,5-dihydrofuran (I) and 2-tert-butyl-5-methyl-2-propyltetrahydrofuran, were synthesized by a synthetic sequence consisting of Grignard reaction, Lindlar hydrogenation, and cyclization followed by optional Pd-catalyzed hydrogenation. The sequence was modified for the synthesis of the oxygenated analogs 2-(2'-tert-butyl-5'-methyltetrahydrofuran-2'-yl)propan-2-ol and 3-(2'-tert-butyl-5'-methyltetrahydrofuran-2'-yl)butan-2-one. The first modification featured trimethylsilyl ether protection and stepwise construction of the alkyne moiety necessitated by steric hindrance. In the second modification, a but-2-en-2-yl group was utilized as latent 3-hydroxybut-1-en-2-yl functionality, and the steric constraint around the tertiary hydroxy group was exploited to introduce a stereocenter by SN2 ring closure. As for the parent compds. 2-tert-butyl-5-methyl-2-propyl-2,5-dihydrofuran and 2-(2'-tert-butyl-5'-methyltetrahydrofuran-2'-yl)propan-2-ol, the odor of the oxygenated seco-theaspiranes was shifted towards a woody tonality. (\pm)-Trans-2-(2'-tert-butyl-5'-methyltetrahydrofuran-2'-yl)propan-2-ol (II) even had a typical patchouli profile, and (+)-(2'R,3R,5'S)-3-(2'-tert-butyl-5'-methyltetrahydrofuran-2'-yl)butan-2-one (III) and its (-)-(2'S,3S,5'R)-enantiomer differed significantly in their olfactory properties.

IT 871465-49-5P, 2-tert-Butyl-5-methyl-2-propyl-2,5-dihydrofuran
 RL: BSU (Biological study, unclassified); COS (Cosmetic use); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (design, synthesis and olfactory properties of 2-substituted 2-tert-butyl-5-methyl-2,5-dihydrofurans, i.e. seco-theaspirane derivs.)

RN 871465-49-5 HCAPLUS

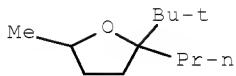
CN Furan, 2-(1,1-dimethylethyl)-2,5-dihydro-5-methyl-2-propyl- (CA INDEX NAME)



IT 871465-50-8P, 2-tert-Butyl-5-methyl-2-propyltetrahydrofuran
 RL: BSU (Biological study, unclassified); COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (design, synthesis and olfactory properties of 2-substituted 2-tert-butyl-5-methyl-2,5-dihydrofurans, i.e. seco-theaspirane derivs.)

RN 871465-50-8 HCAPLUS

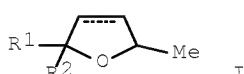
CN Furan, 2-(1,1-dimethylethyl)tetrahydro-5-methyl-2-propyl- (CA INDEX NAME)



REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2005:1021745 HCAPLUS Full-text
 DOCUMENT NUMBER: 143:326194
 TITLE: Preparation of trisubstituted dihydro- and tetrahydrofurans suitable for use in fragrance compositions
 INVENTOR(S): Kraft, Philip
 PATENT ASSIGNEE(S): Givaudan S. A., Switz.
 SOURCE: PCT Int. Appl., 21 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|--|------------|
| WO 2005087756 | A1 | 20050922 | WO 2005-CH137 | 20050307 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |
| RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| EP 1742929 | A1 | 20070117 | EP 2005-706555 | 20050307 |
| R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR | | | | |
| CN 1930140 | A | 20070314 | CN 2005-80007629 | 20050307 |
| BR 2005008817 | A | 20070807 | BR 2005-8817 | 20050307 |
| JP 2007529430 | T | 20071025 | JP 2007-503172 | 20050307 |
| MX 2006PA10193 | A | 20061120 | MX 2006-PA10193 | 20060907 |
| KR 2006130214 | A | 20061218 | KR 2006-718843 | 20060914 |
| IN 2006CN03333 | A | 20070615 | IN 2006-CN3333 | 20060914 |
| US 20080039360 | A1 | 20080214 | US 2007-589654 | 20070413 |
| PRIORITY APPLN. INFO.: | | | GB 2004-5723 | A 20040315 |
| | | | WO 2005-CH137 | W 20050307 |
| OTHER SOURCE(S): GI | | | CASREACT 143:326194; MARPAT 143:326194 | |



AB 2,2-Disubstituted 5-methyl-2,5-dihydro- and 2,2-disubstituted 5-methyltetrahydrofurans I (R1 = Me, Et, Pr, Me2CH; R2 = branched C4-7 alkyl, C5-7 cycloalkyl, mono- or disubstituted C5-6 cycloalkyl) are useful as odorants. Thus, treatment of butyn-3-ol with Et Grignard, followed by reaction with 2,2-dimethylhexan-3-one gave 90% 5-tert-butyloct-3-yne-2,5-diol. Hydrogenation in the presence of Lindlar catalyst gave the corresponding (Z)-alkene, which was cyclized by heating in the presence of KHSO4 to give 2-tert-butyl-5-methyl-2-propyl-2,5-dihydrofuran (II). Further hydrogenation of II gave the corresponding THF (III). The odor of II was described as black currant, natural, rich, eucalyptus buds, anise, buchu leaves, slightly green, while III was described as black currant, damascone, sweet, natural, rich, with green, piny, eucalyptus and mint-like facets.

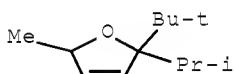
IT 865205-21-6P 865205-23-8P 865205-25-0P
865205-26-1P 871465-49-5P

RL: COS (Cosmetic use); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of trisubstituted dihydro- and tetrahydrofurans for use in fragrance compns.)

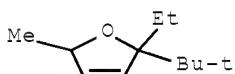
RN 865205-21-6 HCAPLUS

CN Furan, 2-(1,1-dimethylethyl)-2,5-dihydro-5-methyl-2-(1-methylethyl)- (CA INDEX NAME)



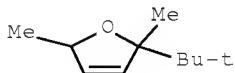
RN 865205-23-8 HCAPLUS

CN Furan, 2-(1,1-dimethylethyl)-2-ethyl-2,5-dihydro-5-methyl- (CA INDEX NAME)



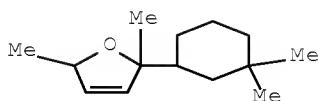
RN 865205-25-0 HCAPLUS

CN Furan, 2-(1,1-dimethylethyl)-2,5-dihydro-2,5-dimethyl- (CA INDEX NAME)

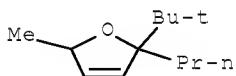


RN 865205-26-1 HCAPLUS

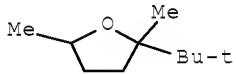
CN Furan, 2-(3,3-dimethylcyclohexyl)-2,5-dihydro-2,5-dimethyl- (CA INDEX NAME)



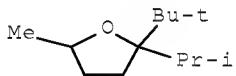
RN 871465-49-5 HCAPLUS
 CN Furan, 2-(1,1-dimethylethyl)-2,5-dihydro-5-methyl-2-propyl- (CA INDEX NAME)



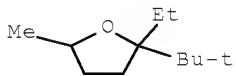
IT 781665-93-8P 865205-22-7P 865205-24-9P
 865205-27-2P 871465-50-8P
 RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of trisubstituted dihydro- and tetrahydrofurans for use in fragrance compns.)
 RN 781665-93-8 HCAPLUS
 CN Furan, 2-(1,1-dimethylethyl)tetrahydro-2,5-dimethyl- (CA INDEX NAME)



RN 865205-22-7 HCAPLUS
 CN Furan, 2-(1,1-dimethylethyl)tetrahydro-5-methyl-2-(1-methylethyl)- (CA INDEX NAME)

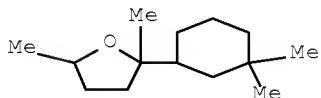


RN 865205-24-9 HCAPLUS
 CN Furan, 2-(1,1-dimethylethyl)-2-ethyltetrahydro-5-methyl- (CA INDEX NAME)



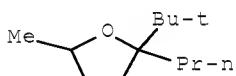
RN 865205-27-2 HCAPLUS

CN Furan, 2-(3,3-dimethylcyclohexyl)tetrahydro-2,5-dimethyl- (CA INDEX NAME)



RN 871465-50-8 HCAPLUS

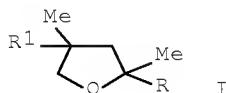
CN Furan, 2-(1,1-dimethylethyl)tetrahydro-5-methyl-2-propyl- (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1986:115895 HCAPLUS Full-text
 DOCUMENT NUMBER: 104:115895
 ORIGINAL REFERENCE NO.: 104:18255a,18258a
 TITLE: Substituted tetrahydrofurans
 INVENTOR(S): Hochstetler, Alan R.
 PATENT ASSIGNEE(S): Givaudan Corp., USA
 SOURCE: U.S., 6 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|--------|------------|-----------------|----------|
| US 4549029 | A | 19851022 | US 1983-482353 | 19830405 |
| PRIORITY APPLN. INFO.: | | | US 1983-482353 | 19830405 |
| OTHER SOURCE(S): | MARPAT | 104:115895 | | |
| GI | | | | |



AB Title compds. I [R = H, Me; R1 = optionally Me-substituted Ph, cyclohexenyl, cyclohexyl] were prepared and possess organoleptic properties described as fruity, citrus-like and reminiscent of grapefruit. I are useful in fragrances and flavors. Thus, 2,4-dimethyl-2-phenyl-4-pentenol was treated with LiAlH4

to give 97% pentenol, which was cyclized with H₂SO₄ to give 77% I (R = Me, R₁ = Ph). The addition of 25 parts I to 975 parts citrus base having an odor characteristic of orange and lemon had a beneficial effect on the base, i.e., the citrus character was improved. I (R = Me, R₁ = 4-MeC₆H₄) provided the most desirable effect. The addition of 0.2 ppm I (R = Me, R₁ = Ph) to 100 g of a standard blueberry flavored drink enhanced the aroma and gave it a more natural blueberry flavor.

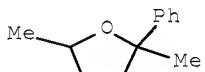
IT 100643-79-6P 100643-82-1P

RL: PREP (Preparation)

(preparation of, as flavoring and fragrance component)

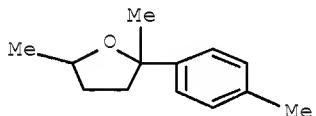
RN 100643-79-6 HCPLUS

CN Furan, tetrahydro-2,5-dimethyl-2-phenyl- (CA INDEX NAME)



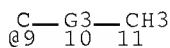
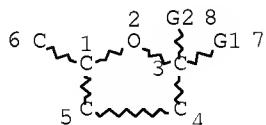
RN 100643-82-1 HCPLUS

CN Furan, tetrahydro-2,5-dimethyl-2-(4-methylphenyl)- (CA INDEX NAME)



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L1 STR

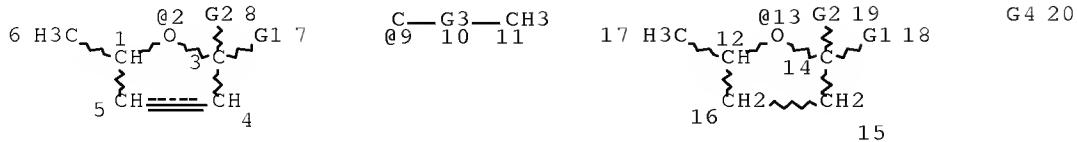


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 VAR G2=N-BU/T-BU/S-BU/I-BU/9/CB
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 NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 11

STEREO ATTRIBUTES: NONE

L3 1749 SEA FILE=REGISTRY SSS FUL L1
L4 STR

VAR G1=ME/ET/I-PR/N-PR
 VAR G2=N-BU/T-BU/S-BU/I-BU/9/CB
 REP G3=(3-5) C
 VAR G4=2/13
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 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
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 NUMBER OF NODES IS 20

STEREO ATTRIBUTES: NONE
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 L9 15 SEA FILE=HCAPLUS ABB=ON PLU=ON L5
 L10 477297 SEA FILE=HCAPLUS ABB=ON PLU=ON ("ODOR AND ODOROUS SUBSTANCES"
 "/CV OR "ODOROUS SUBSTANCES"/CV OR ODORS/CV) OR ("AIR FRESHENERS
 "/CV OR "COSMETICS AND PERSONAL CARE PRODUCTS"/CV OR DEODORIZAT
 ION/CV OR ESSENCES/CV OR FLAVOR/CV) OR 320 OR ?FRAGR? OR
 ?ODOR? OR COSMETIC OR SHAMPOO OR DETERGEN? OR PERFUME OR
 CLEANER OR LAUNDRY
 L11 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L9 AND L10
 L12 12 SEA FILE=HCAPLUS ABB=ON PLU=ON L9 NOT L11

=> d ibib abs hitstr 112 1-12

L12 ANSWER 1 OF 12 HCAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2008:795177 HCAPLUS Full-text
 DOCUMENT NUMBER: 149:152759
 TITLE: Gold(I)-catalyzed cyclizations of 1,6-enynes:
 alkoxycyclizations and exo/endo skeletal
 rearrangements. [Erratum to document cited in
 CA144:432480]
 AUTHOR(S): Nieto-Oberhuber, Cristina; Munoz, M. Paz; Lopez,
 Salome; Jemenez-Nunez, Eloisa; Nevado, Cristina;
 Herrero-Gomez, Elena; Raducan, Mihai; Echavarren,
 Antonio M.
 CORPORATE SOURCE: Institute of Chemical Research of Catalonia (ICIQ),
 Tarragona, 43007, Spain
 SOURCE: Chemistry--A European Journal (2008), 14(17), 5096
 CODEN: CEUJED; ISSN: 0947-6539
 PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB The authors found that the configuration of diene 64 (Ar=p-MeOC₆H₄) in Scheme 6 on page 1683 was incorrectly assigned. The major isomer has a cis configuration, whereas the configuration of related compds. 62 and 66 (Ar=Ph and p-O₂NC₆H₄) is trans as reported. The correct version of the reaction is given.

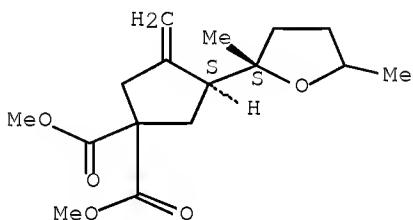
IT 884492-18-6P

RL: SPN (Synthetic preparation); PREP (Preparation)
(gold(I)-catalyzed cyclizations and exo/endo skeletal rearrangements of 1,6-enynes (Erratum))

RN 884492-18-6 HCPLUS

CN 1,1-Cyclopentanedicarboxylic acid,
3-methylene-4-[(2R)-tetrahydro-2,5-dimethyl-2-furanyl]-, 1,1-dimethyl ester, (4R)-rel- (CA INDEX NAME)

Relative stereochemistry.



L12 ANSWER 2 OF 12 HCPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:570848 HCPLUS Full-text

DOCUMENT NUMBER: 147:174359

TITLE: Lewis acid character of zero-valent gold nanoclusters under aerobic conditions: intramolecular hydroalkoxylation of alkenes

AUTHOR(S): Kamiya, Ikuyo; Tsunoyama, Hironori; Tsukuda, Tatsuya; Sakurai, Hidehiro

CORPORATE SOURCE: Research Center for Molecular-Scale Nanoscience, Institute for Molecular Science, Myodaiji, Okazaki, 444-8787, Japan

SOURCE: Chemistry Letters (2007), 36(5), 646-647
CODEN: CMLTAG; ISSN: 0366-7022

PUBLISHER: Chemical Society of Japan

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 147:174359

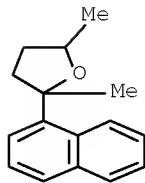
AB Gold nanoclusters stabilized by poly(N-vinyl-2-pyrrolidone) (Au:PVP NCs, ϕ = 1.3 nm) behave as Lewis acid catalyst in aqueous media under aerobic conditions, to promote the intramol. hydroalkoxylation of unactivated alkenes. Mol. oxygen generates a reaction center having the Lewis acidic character on the surface of Au NCs in which constituent gold atoms are formally in zero-valence state.

IT 1061284-19-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
(Lewis acid character of zero-valent gold nanoclusters under aerobic conditions: intramol. hydroalkoxylation of alkenes)

RN 1061284-19-2 HCPLUS

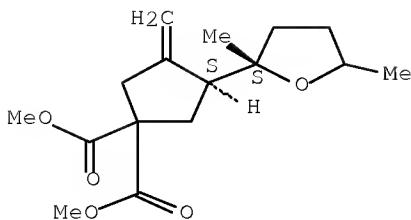
CN Furan, tetrahydro-2,5-dimethyl-2-(1-naphthalenyl)- (CA INDEX NAME)



REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 3 OF 12 HCPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2006:196741 HCPLUS [Full-text](#)
 DOCUMENT NUMBER: 144:432480
 TITLE: Gold(I)-catalyzed cyclizations of 1,6-enynes: alkoxycyclizations and exo/endo skeletal rearrangements
 AUTHOR(S): Nieto-Oberhuber, Cristina; Munoz, M. Paz; Lopez, Salome; Jimenez-Nunez, Eloisa; Nevado, Cristina; Herrero-Gomez, Elena; Raducan, Mihai; Echavarren, Antonio M.
 CORPORATE SOURCE: Institute of Chemical Research of Catalonia (ICIQ), Tarragona, 43007, Spain
 SOURCE: Chemistry--A European Journal (2006), 12(6), 1677-1693
 CODEN: CEUJED; ISSN: 0947-6539
 PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 144:432480
 AB Gold(I) complexes are the most active catalysts for alkoxy- or hydroxycyclization and for skeletal rearrangement reactions of 1,6-enynes. Intramol. alkoxycyclizations also proceed efficiently in the presence of gold(I) catalysts. Examples of the skeletal rearrangement of enynes by the endocyclic cyclization pathway are also documented. Iron(III) is also able to catalyze exo and endo skeletal rearrangements of 1,6-enynes, although the scope of this transformation is more limited. The gold(I)-catalyzed endocyclic cyclization proceeds by a mechanism different from those followed in the presence of PdII, HgII, or RhI catalysts.
 IT 884492-18-6P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (gold(I)-catalyzed cyclizations and exo/endo skeletal rearrangements of 1,6-enynes)
 RN 884492-18-6 HCPLUS
 CN 1,1-Cyclopentanedicarboxylic acid, 3-methylene-4-[(2R)-tetrahydro-2,5-dimethyl-2-furanyl]-, 1,1-dimethyl ester, (4R)-rel- (CA INDEX NAME)

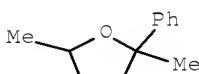
Relative stereochemistry.



REFERENCE COUNT: 102 THERE ARE 102 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 4 OF 12 HCPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2005:511326 HCPLUS Full-text
 DOCUMENT NUMBER: 143:172701
 TITLE: γ -Butyltelluro-2-butanol: a route to reactive 1,4-dianion intermediates
 AUTHOR(S): Princival, Jefferson L.; de Barros, Simone M. G.; Comasseto, Joao V.; Dos Santos, Alcindo A.
 CORPORATE SOURCE: DQF, Universidade Federal de Pernambuco, Recife, Pe, 50740-540, Brazil
 SOURCE: Tetrahedron Letters (2005), 46(26), 4423-4425
 CODEN: TELEAY; ISSN: 0040-4039
 PUBLISHER: Elsevier B.V.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 143:172701
 AB On reaction of γ -butyltelluro-2-butanol $\text{MeCH(OH)CH}_2\text{CH}_2\text{TeBu}$ with 2 equiv of n-butyllithium, both tellurium/lithium exchange and the proton abstraction reactions take place in a single step. The lithium dianion intermediate efficiently reacts with aldehydes and ketones R_1COR_2 [$\text{R}_1 = \text{Ph}$, 2-furyl, $\text{Me}_2\text{C:CHCH}_2\text{CH}_2\text{CHMeCH}_2$, $\text{R}_2 = \text{H}$; $\text{R}_1 = \text{Ph}$, $\text{R}_2 = \text{Me}$, Ph ; $\text{R}_1\text{R}_2 = (\text{CH}_2)_5$] producing the corresponding diols $\text{R}_1\text{R}_2\text{C(OH)CH}_2\text{CH}_2\text{CH(OH)Me}$ in 63-92% yields. The latter were readily converted into the corresponding 2-substituted-5-methyltetrahydrofurans by acid-catalyzed intramol. cyclodehydration.

IT 100643-79-6P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of unsym. 1,4-diols by addition of dianion, generated from γ -tellurobutanol, to aldehydes and ketones and their cyclodehydration to tetrahydrofurans)
 RN 100643-79-6 HCPLUS
 CN Furan, tetrahydro-2,5-dimethyl-2-phenyl- (CA INDEX NAME)



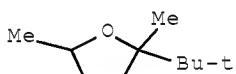
REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 5 OF 12 HCPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2004:711234 HCPLUS Full-text

DOCUMENT NUMBER: 141:379548
 TITLE: On the 6-endo Selectivity in 4-Penten-1-oxyl Radical Cyclizations
 AUTHOR(S): Hartung, Jens; Kneuer, Rainer; Rummey, Christian;
 Bringmann, Gerhard
 CORPORATE SOURCE: Institut fuer Organische Chemie, Universitaet
 Wuerzburg, Wuerzburg, D-97074, Germany
 SOURCE: Journal of the American Chemical Society (2004),
 126(38), 12121-12129
 CODEN: JACSAT; ISSN: 0002-7863
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 141:379548

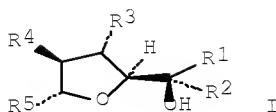
AB Regioselectivities in cyclizations of 4-substituted 4-penten-1-oxyl radicals were studied in a combined exptl. and computational study (d. functional theory). The progressive increase of the 6-endo-trig selectivity along 4-substituents H < CH₃ < C(CH₃)₃ < C₆H₅ were interpreted to originate from a balance between strain and FMO interactions. Torsional strain, which is associated with geometrical changes upon an approach of the reacting entities, is relevant for the 6-endo-trig but not for the 5-exo-trig reactions, as seen, for instance, in selective THF formation from the 4-penten-1-oxyl radical and its 4-Me derivative. The preference for tetrahydropyran formation in cyclizations of the 4-tert-Bu and the 4-phenyl-4-penten-1-oxyl radical was attributed to FMO interactions between the terminal carbon atom of the π bond and the O-radical center thus favoring the 6-endo-trig reaction from lower transition state energies.

IT 781665-93-8P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (6-endo selectivity in 4-penten-1-oxyl radical cyclizations)
 RN 781665-93-8 HCPLUS
 CN Furan, 2-(1,1-dimethylethyl)tetrahydro-2,5-dimethyl- (CA INDEX NAME)



REFERENCE COUNT: 79 THERE ARE 79 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 6 OF 12 HCPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1992:651155 HCPLUS Full-text
 DOCUMENT NUMBER: 117:251155
 ORIGINAL REFERENCE NO.: 117:43475a, 43478a
 TITLE: Oxidative cyclization of 5-hydroxy alkenes with rhenium oxide, utilizing a co-oxidant. IV
 AUTHOR(S): Tang, Suhan; Kennedy, Robert M.
 CORPORATE SOURCE: Dep. Chem., Columbia Univ., New York, NY, 10027, USA
 SOURCE: Tetrahedron Letters (1992), 33(37), 5303-6
 CODEN: TELEAY; ISSN: 0040-4039
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 117:251155
 GI



AB 5-Hydroxy alkenes, e.g., R1R2C:CHCHR3CHR4CH(OH)R5 [R1 = (CH₂)₄Me, R2 = R3 = R4 = R5 = H; R1 = R3 = R4 = R5 = H, R2 = (CH₂)₄Me; R1 = R4 = R5 = H, R2 = (CH₂)₅Me, R3 = Me; etc.], react with rhenium(VII) oxide in the presence of another oxidant, H₅IO₆, to provide substituted tetrahydrofurans, e.g., I. The yield and stereoselectivity are comparable to stoichiometric results.

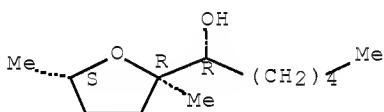
IT 143563-45-5P 144463-03-6P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 143563-45-5 HCPLUS

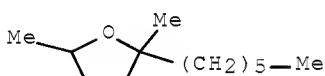
CN 2-Furanmethanol, tetrahydro-2,5-dimethyl-*α*-pentyl-,
[2*α*(R*),5*β*]- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 144463-03-6 HCPLUS

CN Furan, 2-hexyltetrahydro-2,5-dimethyl- (CA INDEX NAME)



L12 ANSWER 7 OF 12 HCPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1991:143739 HCPLUS Full-text

DOCUMENT NUMBER: 114:143739

ORIGINAL REFERENCE NO.: 114:24405a

TITLE: Total synthesis of the meso-triterpene polyether teurilene

AUTHOR(S): Hashimoto, Masaru; Harigaya, Hiroko; Yanagiya, Mitsutoshi; Shirahama, Haruhisa

CORPORATE SOURCE: Fac. Sci., Hokkaido Univ., Sapporo, 060, Japan

SOURCE: Journal of Organic Chemistry (1991), 56(7), 2299-311

CODEN: JOCEAH; ISSN: 0022-3263

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 114:143739

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

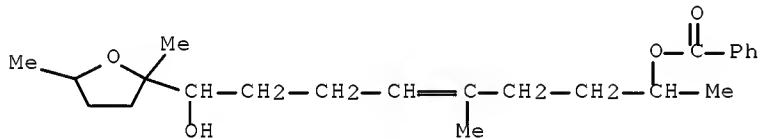
AB The first total synthesis of the triterpene ether teurilene (I) was accomplished utilizing two vanadium(V)-catalyzed oxidation-cyclization reactions with different stereoselectivities. The synthesis involved stereoselective and step-by-step construction of 2,5-cis- and 2,5-trans-tetrahydrofuran rings, vanadium(V)-catalyzed oxidation of 4-substituted 4-en-1-ol II and subsequent cyclization of the resulting anti-epoxy alc. III, and a similar oxidation-cyclization of 5-substituted 4-en-1-ol IV by way of syn-epoxy alc. V. This was followed by construction of a third THF ring by more conventional means. An improved synthesis of I, which featured direct formation of a bis(tetrahydrofuran) from squalene derivative VI by simultaneous double oxidation-cyclization, was also accomplished.

IT 123908-75-8P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 123908-75-8 HCPLUS

CN 4-Nonene-1,8-diol, 5-methyl-1-(tetrahydro-2,5-dimethyl-2-furanyl)-, 8-benzoate, [2R-[2a(1S*,4E,8S*),5β]]- (9CI) (CA INDEX NAME)



L12 ANSWER 8 OF 12 HCPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1990:497852 HCPLUS Full-text

DOCUMENT NUMBER: 113:97852

ORIGINAL REFERENCE NO.: 113:16541a, 16544a

TITLE: Total syntheses of (+)-thyrsiferol, (+)-thyrsiferyl 23-acetate, and (+)-venustatriol

AUTHOR(S): Hashimoto, Masaru; Kan, Toshiyuki; Nozaki, Koji; Yanagiya, Mitsutoshi; Shirahama, Haruhisa; Matsumoto, Takeshi

CORPORATE SOURCE: Fac. Sci., Hokkaido Univ., Sapporo, 060, Japan

SOURCE: Journal of Organic Chemistry (1990), 55(17), 5088-107

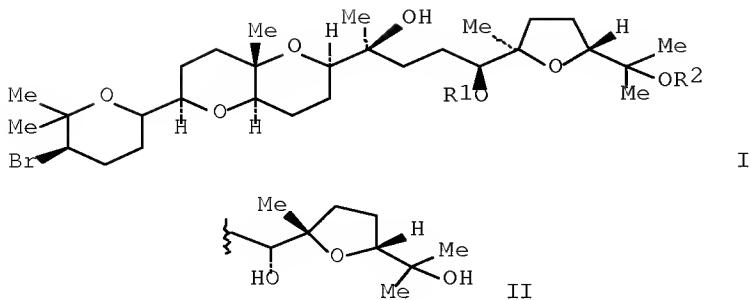
CODEN: JOCEAH; ISSN: 0022-3263

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 113:97852

GI



AB The first total syntheses of (+)-thyrsiferol (I, R1 = R2 = H), (+)-thyrsiferyl 23-acetate (I, R1 = H, R2 = Ac), and (+)-venustatriol (II) were accomplished stereoselectively. An effective synthetic scheme to construct the BC ring system, which adopts a chair/twist-boat conformation, was first developed by means of a model study. This method involved stereoselective formation of the strained C ring by intramol. attack of the C7-hydroxyl group at the C3-position of the 2,3-epoxy alc., employing Ti(OCHMe₂)₄ as an acidic activator. Based on the information accumulated in the model study and retrosynthetic considerations, the total syntheses of the title compds. were performed in the sequence of (1) construction of the BC ring system equipped with a C1-C6 carbon unit, (2) elongation of the C17-C24 carbon chain, (3) formation of a D ring through the stereoselective epoxidn. of the 4-en-1-ol system and successive cyclization, and (4) construction of the A ring by bromonium ion induced cyclization of the 4-en-1-ol system.

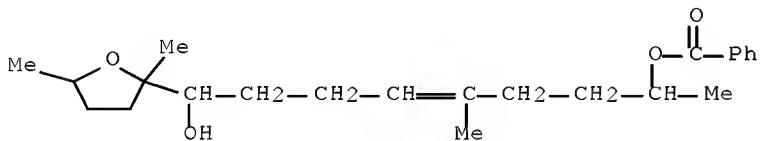
IT 123908-75-8 128300-87-8

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation and sequential mesylation and reaction with silver carbonate)

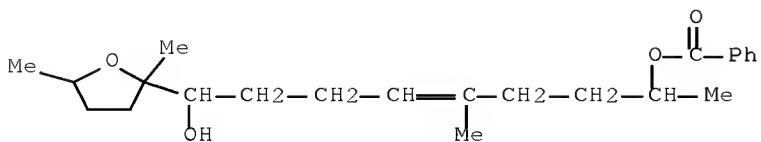
RN 123908-75-8 HCPLUS

CN 4-Nonene-1,8-diol, 5-methyl-1-(tetrahydro-2,5-dimethyl-2-furanyl)-, 8-benzoate, [2R-[2 α (1S*,4E,8S*),5 β]]- (9CI) (CA INDEX NAME)



RN 128300-87-8 HCPLUS

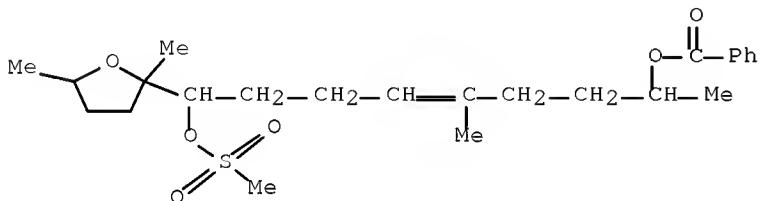
CN 4-Nonene-1,8-diol, 5-methyl-1-(tetrahydro-2,5-dimethyl-2-furanyl)-, 8-benzoate, [2S-[2 α (1S*,4E,8R*),5 α]]- (9CI) (CA INDEX NAME)



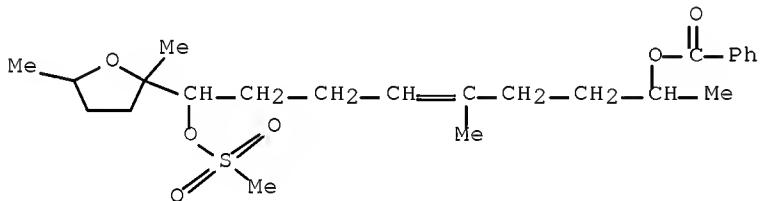
IT 128243-76-5P 128300-88-9P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 128243-76-5 HCAPLUS

CN 4-Nonen-1,8-diol, 5-methyl-1-(tetrahydro-2,5-dimethyl-2-furanyl)-,
8-benzoate 1-methanesulfonate, [2R-[2 α (1S*, 4E, 8S*), 5 β]]- (9CI)
(CA INDEX NAME)

RN 128300-88-9 HCAPLUS

CN 4-Nonen-1,8-diol, 5-methyl-1-(tetrahydro-2,5-dimethyl-2-furanyl)-,
8-benzoate 1-methanesulfonate, [2S-[2 α (1S*, 4E, 8R*), 5 α]]- (9CI)
(CA INDEX NAME)

L12 ANSWER 9 OF 12 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1990:36220 HCAPLUS Full-text

DOCUMENT NUMBER: 112:36220

ORIGINAL REFERENCE NO.: 112:6277a, 6280a

TITLE: Total synthesis of teurilene

AUTHOR(S): Hashimoto, Masaru; Harigaya, Hiroko; Yanagiya, Mitsutoshi; Shirahama, Haruhisa

CORPORATE SOURCE: Fac. Sci., Hokkaido Univ., Sapporo, 060, Japan

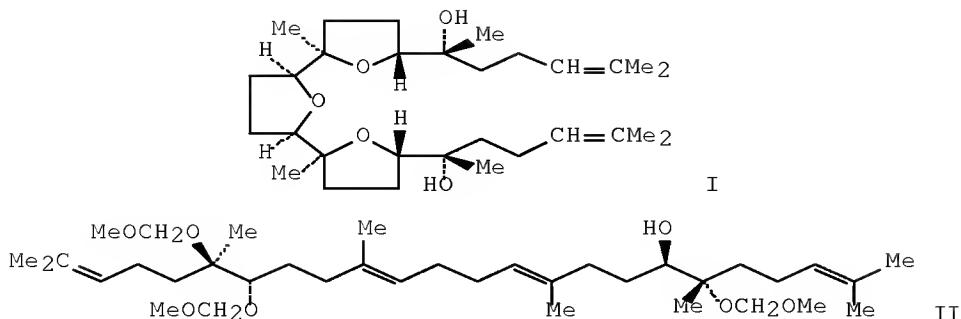
SOURCE: Tennen Yuki Kagobutsu Toronkai Koen Yoshishu (1988), 30, 119-25

CODEN: TYKYDS

DOCUMENT TYPE: Journal

LANGUAGE: Japanese

GI



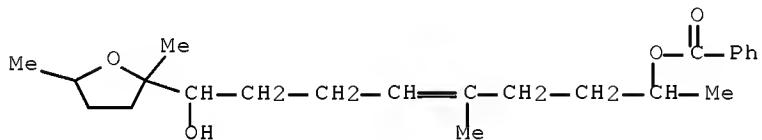
AB Teurilene (I), a marine triterpene isolated from red alga Laurencia obtusa, is characterized by an arrangement of eight asym. carbons in Cs symmetry. The first total synthesis of I includes a short step synthesis by stereocontrolled double cyclization of a C30-squalene derivative (II).

IT 123908-75-8

RL: RCT (Reactant); RACT (Reactant or reagent)
(epoxidn. of)

RN 123908-75-8 HCAPLUS

CN 4-Nonene-1,8-diol, 5-methyl-1-(tetrahydro-2,5-dimethyl-2-furanyl)-, 8-benzoate, [2R-[2 α (1S*,4E,8S*),5 β]]- (9CI) (CA INDEX NAME)



L12 ANSWER 10 OF 12 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1980:514218 HCAPLUS Full-text

DOCUMENT NUMBER: 93:114218

ORIGINAL REFERENCE NO.: 93:18273a,18276a

TITLE: Synthesis of substituted tetrahydrofurans from γ -hydroxyketone tosylates

AUTHOR(S): Chastrette, Maurice; Axiotis, Georges P.

CORPORATE SOURCE: Lab. Chim. Org. Phys., Univ. Claude-Bernard, Villeurbanne, 69622, Fr.

SOURCE: Comptes Rendus des Seances de l'Academie des Sciences, Serie C: Sciences Chimiques (1980), 290(15), 305-7

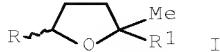
CODEN: CHDCAQ; ISSN: 0567-6541

DOCUMENT TYPE: Journal

LANGUAGE: French

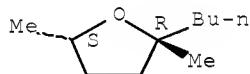
OTHER SOURCE(S): CASREACT 93:114218

GI



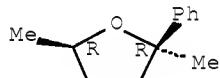
AB The reaction of p -MeC₆H₄SO₂OCHR(CH₂)₂COMe (R = H, Me) with organometallic reagents R₁M (M = MgBr, Li; R₁ = Bu, Ph, furyl) gave tetrahydrofurans I (same R, R₁).
 IT 74652-35-0P 74652-36-1P 74652-39-4P
 74652-40-7P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 74652-35-0 HCPLUS
 CN Furan, 2-butyltetrahydro-2,5-dimethyl-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



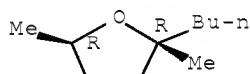
RN 74652-36-1 HCPLUS
 CN Furan, tetrahydro-2,5-dimethyl-2-phenyl-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



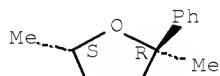
RN 74652-39-4 HCPLUS
 CN Furan, 2-butyltetrahydro-2,5-dimethyl-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

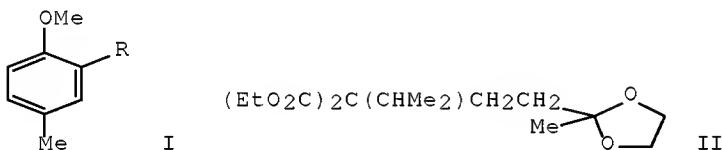


RN 74652-40-7 HCPLUS
 CN Furan, tetrahydro-2,5-dimethyl-2-phenyl-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



DOCUMENT NUMBER: 92:146950
ORIGINAL REFERENCE NO.: 92:23893a, 23896a
TITLE: Syntheses of sesquichamenol methyl ether
AUTHOR(S): Rohela, L. C.; Anand, R. C.
CORPORATE SOURCE: Dep. Chem., Indian Inst. Technol., New Delhi, 110029, India
SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1979), 17B(3), 207-10
CODEN: IJSBDB; ISSN: 0376-4699
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

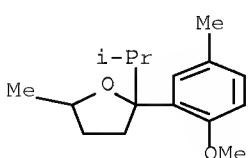


AB Sesquichamenol Me ether [I; R = CH(CHMe₂)CH₂CH₂COMe] was prepared either from ketal II by successive hydrolysis-decarboxylation, bromination-decarboxylation, ketal hydrolysis, and alkylation with I (R = Li), or by Wittig condensation of I (R = COCHMe₂) with MeOCH₂:PPh₃, hydrolysis of I [R = C(CHMe₂):CHOMe], condensation of I [R = CH(CHMe₂)CHO] with MeCOCH₂P(O)(OEt)₂, and hydrogenation of I [R = CH(CHMe₂)CH:CHCOMe].

IT 73256-90-3P
RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

RN 73256-90-3 HCPLUS
CN Furan, tetrahydro-2-(2-methoxy-5-methylphenyl)-5-methyl-2-(1-methylethyl)-
(CA INDEX NAME)



L12 ANSWER 12 OF 12 HCPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1971:462786 HCPLUS Full-text
DOCUMENT NUMBER: 75:62786
ORIGINAL REFERENCE NO.: 75:9951a,9954a
TITLE: Mechanism of photoenolization. o-Methylvalerophenone
AUTHOR(S): Bergmark, William R.; Beckmann, Brian; Lindenberger,
William
CORPORATE SOURCE: Dep. Chem., Ithaca Coll., Ithaca, NY, USA

SOURCE:

Tetrahedron Letters (1971), (25), 2259-62
CODEN: TELEAY; ISSN: 0040-4039

DOCUMENT TYPE:

Journal
English

AB The photolysis of *o*-methylvalerophenone (I) gives *o*-MeC₆H₄COMe (II). The quantum yield of II is 0.010 vs. 0.41 quantum yield of PhCOMe from valerophenone. The yield-reducing effect of *o*-Me in I is due to photoenolization (i.e. the abstraction of 1 H from Me by the neighboring CO group). The contribution of photoelimination (i.e. the abstraction of γ -H) is small. The relative reactivities of Me and γ -H in I are .apprx.30:1. The decomposition of *o*-MeC₆H₄CBuMeOCl with uv light gave a mixture of chloro alcs., which after treatment with NaH in Et₂O gave 30.1 mixture of 1-butyl-1-methylisobenzofuran and *o*-(1,5-dimethyltetrahydrafuryl)toluene.

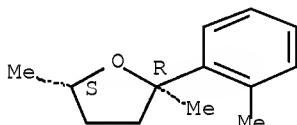
IT 33889-49-5P 33889-50-8P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 33889-49-5 HCPLUS

CN Furan, tetrahydro-2,5-dimethyl-2-*o*-tolyl-, trans- (8CI) (CA INDEX NAME)

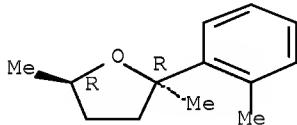
Relative stereochemistry.



RN 33889-50-8 HCPLUS

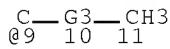
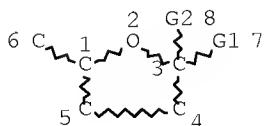
CN Furan, tetrahydro-2,5-dimethyl-2-*o*-tolyl-, cis- (8CI) (CA INDEX NAME)

Relative stereochemistry.



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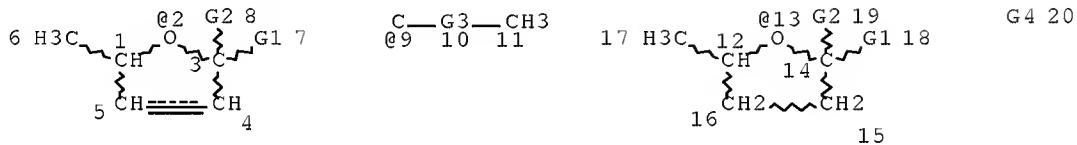
L1 STR



VAR G1=ME/ET/I-PR/N-PR
 VAR G2=N-BU/T-BU/S-BU/I-BU/9/CB
 REP G3=(3-5) C
 NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 11

STEREO ATTRIBUTES: NONE
 L3 1749 SEA FILE=REGISTRY SSS FUL L1
 L4 STR



VAR G1=ME/ET/I-PR/N-PR
 VAR G2=N-BU/T-BU/S-BU/I-BU/9/CB
 REP G3=(3-5) C
 VAR G4=2/13
 NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 20

STEREO ATTRIBUTES: NONE
 L5 28 SEA FILE=REGISTRY SUB=L3 SSS FUL L4
 L9 15 SEA FILE=HCAPLUS ABB=ON PLU=ON L5
 L10 477297 SEA FILE=HCAPLUS ABB=ON PLU=ON ("ODOR AND ODOROUS SUBSTANCES"
 "/CV OR "ODOROUS SUBSTANCES"/CV OR ODORS/CV) OR ("AIR FRESHENERS"
 "/CV OR "COSMETICS AND PERSONAL CARE PRODUCTS"/CV OR DEODORIZAT
 ION/CV OR ESSENCES/CV OR FLAVOR/CV) OR 320 OR ?FRAGR? OR
 ?ODOR? OR COSMETIC OR SHAMPOO OR DETERGEN? OR PERFUME OR
 CLEANER OR LAUNDRY
 L13 1721 SEA FILE=REGISTRY ABB=ON PLU=ON L3 NOT L5
 L14 1893 SEA FILE=HCAPLUS ABB=ON PLU=ON L13
 L15 9 SEA FILE=HCAPLUS ABB=ON PLU=ON L14(L)L10
 L16 8 SEA FILE=HCAPLUS ABB=ON PLU=ON L15 NOT L9

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 =>

=> d ibib abs hitstr 116 1-8

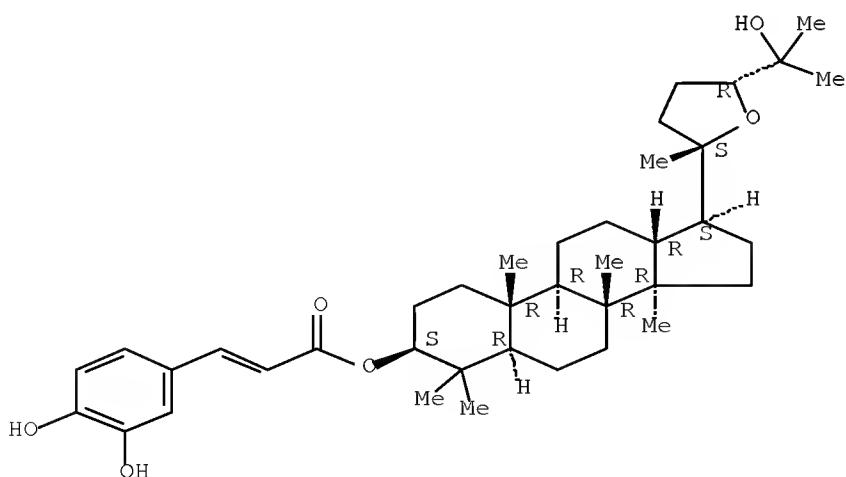
L16 ANSWER 1 OF 8 HCAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2008:23427 HCAPLUS Full-text
 DOCUMENT NUMBER: 148:268924

TITLE: Cosmetic composition containing betula platyphylla extract and used for maintaining skin homeostasis
 INVENTOR(S): Lee, Jong Chan; Kim, Ji Hyeon; Kim, Yeon Jun; Baek, Seung Jae; Kim, Ji Yeong; Lee, Byeong Gon
 PATENT ASSIGNEE(S): Amorepacific Corp., S. Korea
 SOURCE: Repub. Korean Kongkae Taeho Kongbo, 8pp.
 CODEN: KRXXA7
 DOCUMENT TYPE: Patent
 LANGUAGE: Korean
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------|----------|-----------------|----------|
| KR 2007107254 | A | 20071107 | KR 2006-39506 | 20060502 |
| KR 869696 | B1 | 20081121 | | |

PRIORITY APPLN. INFO.: KR 2006-39506 20060502
 AB The invention relates to the title cosmetic composition containing Betula platyphylla extract. The composition can maintain the homeostasis of skin cell through normalizing the expression of the gene whose expression is reduced due to UV rays.
 IT 1006710-67-3
 RL: COS (Cosmetic use); NPO (Natural product occurrence); BIOL (Biological study); OCCU (Occurrence); USES (Uses)
 (cosmetic composition containing betula platyphylla extract and used for maintaining skin homeostasis)
 RN 1006710-67-3 HCAPLUS
 CN Dammarane-3,25-diol, 20,24-epoxy-, 3-[3-(3,4-dihydroxyphenyl)-2-propenoate], (3 β ,20S,24R)- (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.



DOCUMENT NUMBER: 146:427828
 TITLE: Manufacture of antiaging cosmetic containing astragaloside IV
 INVENTOR(S): Zhang, Yindi; Yang, Yusong; Shen, Jianping; Zhao, Fuzhong; Zhuang, Binian; Sun, Shi; Zhang, Hanqing; Liu, Yuehui; You, Lifen
 PATENT ASSIGNEE(S): Nanjing Medical University, Peop. Rep. China
 SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 27pp.
 CODEN: CNXXEV
 DOCUMENT TYPE: Patent
 LANGUAGE: Chinese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|------------------|----------|
| CN 1939254 | A | 20070404 | CN 2006-10096725 | 20061012 |
| PRIORITY APPLN. INFO.: | | | CN 2006-10096725 | 20061012 |

AB The cosmetic is composed of (by%): astragaloside IV (or total astragalosides) 0.0001-0.03 (0.0016-0.05), oil material and emulsifying agent 10-70, alkaline agent 0.2-2, humectant 5-21, antioxidant 0.0005-0.2, preservative 0.1-0.2, essence 0.5-1.5, and refined water 20-80. The cosmetic is manufactured by (1) heating oil material and emulsifying agent to 70-90, adding astragaloside IV, and stirring, (2) mixing alkaline agent, humectant, preservative and water according to the ratio, heating to 70-90 while stirring, maintaining for 20 min, and sterilizing, and (3) mixing the above solution, emulsifying while stirring, adding essence and antioxidant at 45-50, stirring, degassing, checking, and preparing into oil/water or water/oil skin-nursing frost.

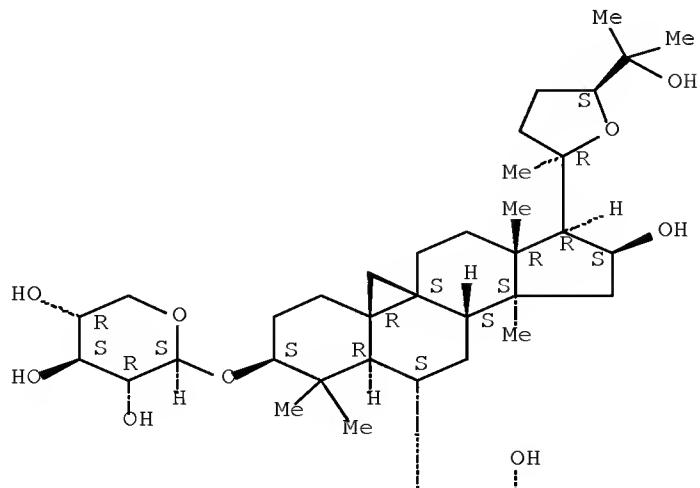
IT 84687-43-4, Astragaloside IV
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (manufacture of antiaging cosmetic containing astragaloside IV)

RN 84687-43-4 HCPLUS

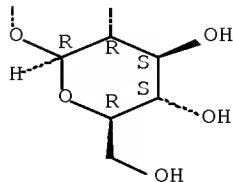
CN β -D-Glucopyranoside, (3 β ,6 α ,16 β ,20R,24S)-20,24-epoxy-16,25-dihydroxy-3-(β -D-xylopyranosyloxy)-9,19-cyclolanostan-6-yl (CA INDEX NAME)

Absolute stereochemistry.

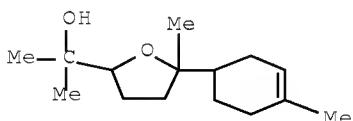
PAGE 1-A



PAGE 2-A



L16 ANSWER 3 OF 8 HCAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2002:181935 HCAPLUS Full-text
 DOCUMENT NUMBER: 137:231533
 TITLE: New developments in sorptive extraction for the analysis of flavours and fragrances
 AUTHOR(S): Sandra, P.; David, F.; Vercammen, J.
 CORPORATE SOURCE: Department of Organic Chemistry, University of Gent, Ghent, 9000, Belg.
 SOURCE: Special Publication - Royal Society of Chemistry (2002), 277(Advances in Flavours and Fragrances), 27-38
 CODEN: SROCD0; ISSN: 0260-6291
 PUBLISHER: Royal Society of Chemistry
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The principle was presented of stir bar sorptive extraction (SBSE) and head space sorptive extraction (HSSE). Applicability was illustrated of SBSE- and HSSE-capillary gas chromatogr./mass spectrometry with the anal. of flavor carriers in tea, beer, yogurt, and bananas, off-flavors in beer, and bitter compds. in beer.
 IT 55399-12-7, Bisabolol oxide B
 RL: ANT (Analyte); ANST (Analytical study)
 (sorptive extraction for the anal. of flavors and fragrances)
 RN 55399-12-7 HCAPLUS
 CN 2-Furanmethanol, tetrahydro- α , α ,5-trimethyl-5-(4-methyl-3-cyclohexen-1-yl)- (CA INDEX NAME)



REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 4 OF 8 HCAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2000:713757 HCAPLUS Full-text
 DOCUMENT NUMBER: 133:325438
 TITLE: Supercritical extraction of chamomile for use in

cosmetics

AUTHOR(S): Simandi, Bela; Sawinsky, Janos; Deak, Andras; Domokos, Janos; Hethelyi, Eva; Palinkas, Janos

CORPORATE SOURCE:

SOURCE: Olaj, Szappan, Kozmetika (2000), 49 (Kulonszam), 48-52
CODEN: OSZKAT; ISSN: 0472-8602

PUBLISHER: METE

DOCUMENT TYPE: Journal

LANGUAGE: Hungarian

AB Chamomile was extracted by supercrit. fluid extraction (SFE) and for comparison, with two solvents: ethanol and hexane. The SFE process was optimized by the variation of the temperature and pressure applied. Volatile components, oils were determined by GC. The SFE extract and the ethanol extract were used in cream and body lotion formulations and their properties were compared. The SFE extract had a richer chamomile aroma than the ethanol extract, according to the organoleptic test. Skin moisturizing effects were measured using a

CM 80 corneometer; there were no statistically significant differences between the two exts. Transepidermal water loss was evaluated with an evaporimeter; the SFE exts. were faster in restoring the normal skin barrier function. This is due probably to the fact that the SFE ext. contains more waxy components. The two exts. in the cosmetic prepn. had the same effects on skin pH and lipid content.

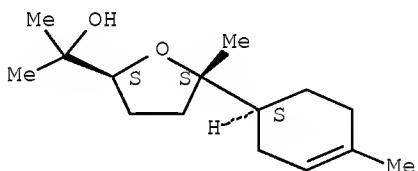
IT 26184-88-3P, Bisabolol oxide II

RL: ANT (Analyte); BOC (Biological occurrence); BSU (Biological study, unclassified); PUR (Purification or recovery); ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)
(supercrit. extraction of chamomile for use in cosmetics)

RN 26184-88-3 HCPLUS

CN 2-Furanmethanol, tetrahydro-*a,a,5*-trimethyl-5-[(1*S*)-4-methyl-3-cyclohexen-1-yl]-, (2*S*,5*S*)- (CA INDEX NAME)

Absolute stereochemistry.



L16 ANSWER 5 OF 8 HCPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1996:314050 HCPLUS Full-text

DOCUMENT NUMBER: 125:86473

ORIGINAL REFERENCE NO.: 125:16301a, 16304a

TITLE: Preparation of cycloalkyltetrahydrofurans and analogs as perfume fragrances

INVENTOR(S): Noire, Paul D.

PATENT ASSIGNEE(S): Givaudan-Roure Corporation, USA

SOURCE: U.S., 31 pp.

CODEN: USXXAM

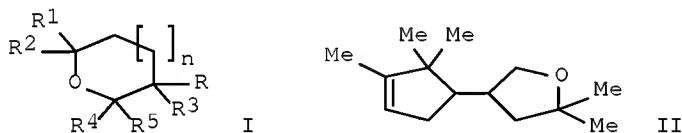
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|------------------|-----------------|------------|
| US 5510326 | A | 19960423 | US 1994-363685 | 19941223 |
| WO 9620185 | A2 | 19960704 | WO 1995-EP5002 | 19951218 |
| WO 9620185 | A3 | 19960906 | | |
| W: JP | | | | |
| RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE | | | | |
| EP 746552 | A1 | 19961211 | EP 1995-942177 | 19951218 |
| EP 746552 | B1 | 20020612 | | |
| R: CH, DE, ES, FR, GB, IT, LI, NL | | | | |
| JP 11505511 | T | 19990521 | JP 1995-520178 | 19951218 |
| ES 2176353 | T3 | 20021201 | ES 1995-942177 | 19951218 |
| US 5665696 | A | 19970909 | US 1995-577487 | 19951222 |
| PRIORITY APPLN. INFO.: | | | | A 19941223 |
| | | | | W 19951218 |
| OTHER SOURCE(S): | | MARPAT 125:86473 | | |
| GI | | | | |



AB Title compds. [e.g., I; R = (cyclo)alkyl; R1 = alkyl; R2 = H or alkyl; R3 = H or Me; n = 0 and R4 = R5 = H; n = 1 and R4,R5 = H or alkyl] were prepared. Thus, 2,2,3-trimethyl-3-cyclopenteneacetaldehyde was alkylated by CH₂:CMeCH₂OH and the reduced product cyclized to give title compound II of woody amber fragrance.

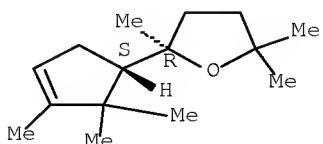
IT 178744-79-1P 178744-80-4P

RL: MOA (Modifier or additive use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(preparation of cycloalkyltetrahydrofurans and analogs as perfume fragrances)

BN 178744-79-1 HCABLIJS

RN 176711-73-1 HCN EGS
CN Furan, tetrahydro-2,2,5-trimethyl-5-(2,2,3-trimethyl-3-cyclopenten-1-yl)-, (R*,S*)- (9CI) (CA INDEX NAME)

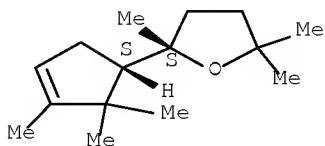
Relative stereochemistry.



RN 178744-80-4 HCAPLUS

CN Furan, tetrahydro-2,2,5-trimethyl-5-(2,2,3-trimethyl-3-cyclopenten-1-yl)-, (R*,R*)- (9CI) (CA INDEX NAME)

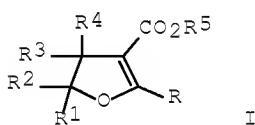
Relative stereochemistry.



L16 ANSWER 6 OF 8 HCPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1989:23713 HCPLUS Full-text
 DOCUMENT NUMBER: 110:23713
 ORIGINAL REFERENCE NO.: 110:4005a, 4008a
 TITLE: Preparation of 4-alkoxycarbonyl-2,3-dihydrofurans as aroma enhancers
 INVENTOR(S): Harris, Eugene C.; Fayter, Richard C., Jr.
 PATENT ASSIGNEE(S): National Distillers and Chemical Corp., USA
 SOURCE: U.S., 12 pp. Cont.-in-part of 4,636,571.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|-------------|
| US 4681703 | A | 19870721 | US 1986-870594 | 19860604 |
| US 4515978 | A | 19850507 | US 1983-503974 | 19830613 |
| US 4636571 | A | 19870113 | US 1985-726220 | 19850423 |
| PRIORITY APPLN. INFO.: | | | US 1983-503974 | A2 19830613 |
| | | | US 1985-726220 | A2 19850423 |

GI

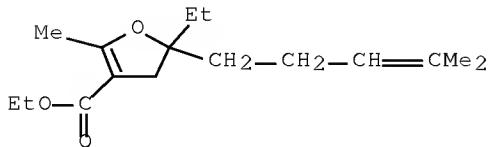


AB Title compds. I (R = C1-5 alkyl; R1, R5 = C1-4 alkyl; R2 = H, C1-6 alkyl; R3, R4 = H, Me), useful as fragrance compns. that can also be used in conjunction with known fragrance materials to enhance or augment the aroma itself, were prepared either by isomerization of the corresponding cyclopropyl ketone derivs. or from oxidative 1,2-addition of 1,3-dicarbonyl compds. to conjugated dienes in AcOH containing Mn and a catalytic amount of Cu. I (R3 = R4 = H) are also prepared by condensation of R1R2CHCHO with RCOCH2CO2R5 followed by cyclization. Thus, reaction of Me2CHCHO and AcCH2CO2Et in the presence of a small amount of piperidine gave Me2CHCH:C(Ac)CO2Et which was refluxed 2 h in PhMe containing Ac2O and 4-MeC6H4SO2OH to give I (R-R2 = Me, R3 = R4 = H, R5 = Et) which had a chamomile and jasmine character.

IT 109176-06-98
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, for fragrance compns.)

RN 109176-06-9 HCAPLUS

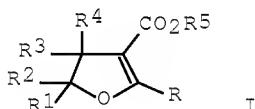
CN 3-Furancarboxylic acid, 5-ethyl-4,5-dihydro-2-methyl-5-(4-methyl-3-penten-1-yl)-, ethyl ester (CA INDEX NAME)



L16 ANSWER 7 OF 8 HCAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1987:439592 HCAPLUS Full-text
 DOCUMENT NUMBER: 107:39592
 ORIGINAL REFERENCE NO.: 107:6615a,6618a
 TITLE: 4-Carbalkoxy-2-ethyl-2,3-dihydrofurans for fragrance compositions
 INVENTOR(S): Harris, Eugene G.; Fayter, Richard G., Jr.
 PATENT ASSIGNEE(S): National Distillers and Chemical Corp., USA
 SOURCE: U.S., 11 pp. Cont.-in-part of U.S. 4,515,978.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

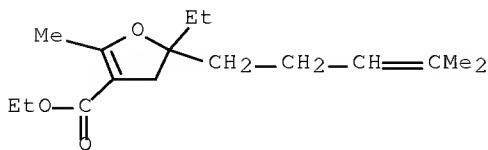
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|-------------|
| US 4636571 | A | 19870113 | US 1985-726220 | 19850423 |
| US 4515978 | A | 19850507 | US 1983-503974 | 19830613 |
| US 4681703 | A | 19870721 | US 1986-870594 | 19860604 |
| PRIORITY APPLN. INFO.: | | | US 1983-503974 | A2 19830613 |
| | | | US 1985-726220 | A2 19850423 |

GI



AB Title compds. I (R = C1-5 alkyl; R1, R5 = C1-4 alkyl; R2 = H, C1-6 alkyl; R3, R4 = H, Me), useful as fragrance compns. that can also be used in conjunction with known fragrance materials to enhance or augment the aroma itself, were prepared. I are prepared either by isomerization of the corresponding cyclopropyl ketone derivs. or from oxidative 1,2-addition of 1,3-dicarbonyl compds. to conjugated dienes in AcOH containing Mn and a catalytic amount of Cu. Oxidative addition of MeCOCH2CO2Et to H2C:CHCH:CH2 in presence of Mn(OAc)2, AcOH and Cu(OAc)2 gave 4-carbethoxy-5-methyl-2-vinyl-2,3-dihydrofuran, which was hydrogenated to give I (R = Me; R1, R3, R4 = H; R2, R5 = Et) which when added to a common herbal perfume base at 1 weight% imparted a desirable chamomile nuance to the overall odor character.

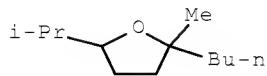
IT 109176-06-9P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, for fragrance compns.)
 RN 109176-06-9 HCPLUS
 CN 3-Furancarboxylic acid, 5-ethyl-4,5-dihydro-2-methyl-5-(4-methyl-3-penten-1-yl)-, ethyl ester (CA INDEX NAME)



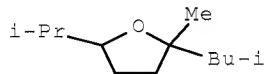
L16 ANSWER 8 OF 8 HCPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1985:437327 HCPLUS Full-text
 DOCUMENT NUMBER: 103:37327
 ORIGINAL REFERENCE NO.: 103:6051a,6054a
 TITLE: Search for new aroma chemicals: cyclic ethers from methyl heptenone
 AUTHOR(S): Mohindru, R. N.; Koul, S. K.; Sethi, V. K.; Taneja, S. C.; Dhar, K. L.
 CORPORATE SOURCE: Reg. Res. Lab., Jammu Tawi, 180001, India
 SOURCE: PAFAI Journal (1984), 6(3), 15-18
 CODEN: PAFJDI; ISSN: 0255-7177
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



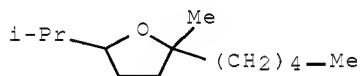
AB Grignard reaction of the readily available synthon Me2C:CH(CH2)2COMe with RX (R = Cl-6 alkyl, Ph, aralkyl, X = halo) gave Me2C:CH(CH2)2CRMeOH (I), oxymercuration-demercuration of which gave mixts. of tetrahydrofurans II and tetrahydropyrans III. I-III were evaluated as aroma compds. for perfumery.
 IT 97265-03-7P 97265-04-8P 97265-05-9P
 97265-06-0P 97265-07-1P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (preparation and odor of)
 RN 97265-03-7 HCPLUS
 CN Furan, 2-butyltetrahydro-2-methyl-5-(1-methylethyl)- (CA INDEX NAME)



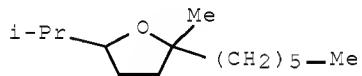
RN 97265-04-8 HCPLUS
 CN Furan, tetrahydro-2-methyl-5-(1-methylethyl)-2-(2-methylpropyl)- (CA INDEX NAME)



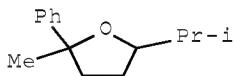
RN 97265-05-9 HCPLUS
 CN Furan, tetrahydro-2-methyl-5-(1-methylethyl)-2-pentyl- (CA INDEX NAME)



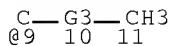
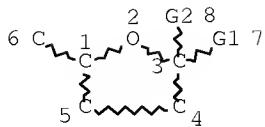
RN 97265-06-0 HCPLUS
 CN Furan, 2-hexyltetrahydro-2-methyl-5-(1-methylethyl)- (CA INDEX NAME)



RN 97265-07-1 HCPLUS
 CN Furan, tetrahydro-2-methyl-5-(1-methylethyl)-2-phenyl- (CA INDEX NAME)



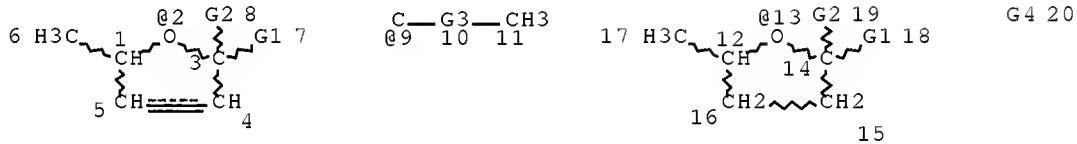
=> => d stat que 145
 L1 STR



VAR G1=ME/ET/I-PR/N-PR
 VAR G2=N-BU/T-BU/S-BU/I-BU/9/CB
 REP G3=(3-5) C
 NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 11

STEREO ATTRIBUTES: NONE
 L3 1749 SEA FILE=REGISTRY SSS FUL L1
 L4 STR



VAR G1=ME/ET/I-PR/N-PR
 VAR G2=N-BU/T-BU/S-BU/I-BU/9/CB
 REP G3=(3-5) C
 VAR G4=2/13
 NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 20

STEREO ATTRIBUTES: NONE
 L5 28 SEA FILE=REGISTRY SUB=L3 SSS FUL L4
 L9 15 SEA FILE=HCAPLUS ABB=ON PLU=ON L5
 L10 477297 SEA FILE=HCAPLUS ABB=ON PLU=ON ("ODOR AND ODOROUS SUBSTANCES"/CV OR "ODOROUS SUBSTANCES"/CV OR ODORS/CV) OR ("AIR FRESHENERS"/CV OR "COSMETICS AND PERSONAL CARE PRODUCTS"/CV OR DEODORIZAT ION/CV OR ESSENCES/CV OR FLAVOR/CV) OR 320 OR ?FRAGR? OR ?ODOR? OR COSMETIC OR SHAMPOO OR DETERGEN? OR PERFUME OR CLEANER OR LAUNDRY
 L11 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L9 AND L10
 L12 12 SEA FILE=HCAPLUS ABB=ON PLU=ON L9 NOT L11

L13 1721 SEA FILE=REGISTRY ABB=ON PLU=ON L3 NOT L5
 L14 1893 SEA FILE=HCAPLUS ABB=ON PLU=ON L13
 L37 94 SEA FILE=HCAPLUS ABB=ON PLU=ON KRAFT PHILIP ?/AU OR KRAFT
 P/AU OR KRAFT P ?/AU OR KRAFT PHILIP/AU
 L38 0 SEA FILE=HCAPLUS ABB=ON PLU=ON L37 AND L14
 L43 8 SEA FILE=HCAPLUS ABB=ON PLU=ON L37 AND ?FURAN?
 L44 6 SEA FILE=HCAPLUS ABB=ON PLU=ON L43 NOT (L11 OR L12)
 L45 6 SEA FILE=HCAPLUS ABB=ON PLU=ON L38 OR L44

=> d ibib abs hitstr 145 1-6

L45 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2008:1480900 HCAPLUS Full-text
 TITLE: 2,5-DI- AND 2,2,5-TRISUBSTITUTED DI- AND
 TETRAHYDROFURAN DERIVATIVES AND THEIR USE FOR THE
 PRODUCTION OF PERFUMES
 INVENTOR(S): Kraft, Philip
 PATENT ASSIGNEE(S): Givaudan SA, Switz.
 SOURCE: PCT Int. Appl., 19pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|----------|
| WO 2008148236 | A1 | 20081211 | WO 2008-CH249 | 20080603 |
| W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |

PRIORITY APPLN. INFO.: GB 2007-10700 A 20070605
 AB Di-/trisubstituted furans of the formula (I) and their use as odorants wherein
 R1 is hydrogen or methyl; R2 is Et, Pr or isopropyl; the bond between C-3 and
 C-4 is a single bond, or the dotted line together with the bond between C-3
 and C-4 represents a double bond; and the bond between C-4' and C-5' is a
 single bond, or the dotted line together with the bond between C-4' and C-5'
 represents a double bond, either in (E)- or (Z)- configuration. The
 invention furthermore relates to a method of their production and to perfume
 compns. comprising them.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L45 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2008:490315 HCAPLUS Full-text
 DOCUMENT NUMBER: 149:86911
 TITLE: Unexpected tethering in the synthesis of
 methyl-substituted acetyl-1-oxaspiro[4.5]decanes:

novel Woody-Ambery odorants with improved
 bioavailability
 AUTHOR(S): Kraft, Philip; Popaj, Kasim
 CORPORATE SOURCE: Givaudan Schweiz AG, Fragrance Research, Duebendorf,
 Switz.
 SOURCE: European Journal of Organic Chemistry (2008), (2),
 261-268
 CODEN: EJOCFK; ISSN: 1434-193X
 PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB To study the olfactory properties of spirocyclic analogs of an Iso Gamma with improved water solubility and bioavailability, it was envisaged to spiroannulate 1-acetyl-1,2-dimethylcyclohexanone at the 4-position with a 3,3-dimethyltetrahydrofuran-2-yl moiety that would mimic the polarity of the double bond by its ether function. 3,3-Dimethyl-4-methylenehex-5-en-1-ol was prepared by copper(I)-mediated 1,4-conjugate addition of the Grignard reagent of chloroprene to 3-methylbut-2-enal with subsequent LAH reduction. However, the Diels-Alder reaction of the diene with (E)-3-methylpent-3-en-2-one in the presence of Me₂AlCl unexpectedly provided exclusively the undesired meta adduct, as was discovered after cyclization to 11 with MeSO₃H. The wrong selectivity was due to a tethering effect of the Lewis acid, and this could be evaded by changing the carbonyl function of the dienophile to a hydroxy group. Thereby the (5'R*, 7'S*, 8'S*)-configured 1-(4',4',7',8'-tetramethyl-1'-oxaspiro[4.5]decan-7'/8'-yl)ethan-1-ones, as well as the like-configured 1-(4',4',7'-trimethyl-1'-oxaspiro[4.5]-decan- 7'/8'-yl)ethan-1-ones, were prepared selectively and studied for their odor characters, threshold values, and octanol/water partition coeffs.

REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L45 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2005:1215756 HCAPLUS Full-text
 DOCUMENT NUMBER: 143:465642
 TITLE: Preparation of alicyclic carboxylic acid
 oxycarbonylmethyl esters and their use as odorants
 INVENTOR(S): Kraft, Philip
 PATENT ASSIGNEE(S): Givaudan S. A., Switz.
 SOURCE: PCT Int. Appl., 16 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|--|----------|-----------------|----------|
| WO 2005108534 | A1 | 20051117 | WO 2005-CH251 | 20050504 |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | |
| RW: | BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, | | | |

RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
MR, NE, SN, TD, TG

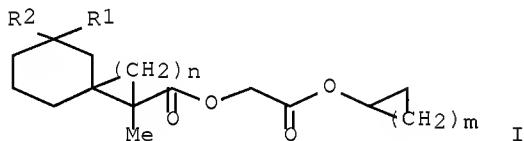
EP 1743013 A1 20070117 EP 2005-732413 20050504
EP 1743013 B1 20071219

R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR

CN 1950490 A 20070418 CN 2005-80014642 20050504
BR 2005009666 A 20071009 BR 2005-9666 20050504
JP 2007536285 T 20071213 JP 2007-511828 20050504
AT 381605 T 20080115 AT 2005-732413 20050504
ES 2297694 T3 20080501 ES 2005-732413 20050504
US 20070225201 A1 20070927 US 2006-568475 20061030
MX 2006PA12767 A 20070116 MX 2006-PA12767 20061103
KR 2007006895 A 20070111 KR 2006-723223 20061106
IN 2006CN04090 A 20070629 IN 2006-CN4090 20061107
GB 2004-10134 A 20040507
WO 2005-CH251 W 20050504

PRIORITY APPLN. INFO.:

GI



AB Alicyclic carboxylic acid oxycarbonylmethyl esters (I; R1, R2 = H, Me; n = 0, 1; m = 0, 1) were prepared for use as odorants. Thus, a perfume was prepared containing bergamot oil 40, p-tert-Butylcyclohexyl acetate 150, citral 5, γ -decalactone 4, p-cresyl Me ether 5, 4,5-dimethyl-3-hydroxy-2(5H)-furanone @ 1 % in tri-Et citrate 2, dodecanal 2, guaiyl acetate 10, (3Z)-hex-3-enol @ 10 % in dipropylene glycol 4, hexyl acetate 50, β -ionone 40, linalool 20, linalyl acetate 13, Me dihydrojasmonate 100, nonanyl acetate 50, 3-methyl-5-(2,2,3-trimethyl-3-cyclopenten-1-yl)-4-penten-2-ol 1, octahydrocoumarin 10, phenoxyethyl alc. 140, 2-phenylethyl acetate 12, 2-phenylethyl alc. 80, sweet orange oil 50, 3a,6,6,9a-tetramethyldodecahydronaphtho[2,1-b]furan 2 (6E)-3,7,11-trimethyl-6,10-dodecadienol 30, 1,7,7-trimethyl-2'-(isopropyl)spiro-[bicyclo[2.2.1]heptane-2,4'-[1,3]dioxane] @ 50 % in iso-Pr myristate 30, and 2-(3,3-dimethylcyclohexyl)propionic acid ethoxycarbonylmethyl ester (preparation given) 150 parts, resp.

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L45 ANSWER 4 OF 6 HCPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2004:1120781 HCPLUS Full-text
DOCUMENT NUMBER: 142:197812
TITLE: On the scope of a Prins-type cyclization of oxonium ions
AUTHOR(S): Frater, Georg; Mueller, Urs; Kraft, Philip
CORPORATE SOURCE: Givaudan Schweiz AG, Fragrance Research, Duebendorf, CH-8600, Switz.
SOURCE: Helvetica Chimica Acta (2004), 87(11), 2750-2763
CODEN: HCACAV; ISSN: 0018-019X
PUBLISHER: Verlag Helvetica Chimica Acta
DOCUMENT TYPE: Journal

LANGUAGE: English
 OTHER SOURCE(S): CASREACT 142:197812
 AB The Prins cyclization of an aldehyde with a homoallylic alc., affording tetrahydro-2H-pyrans via the oxonium ion as central intermediate, was conceptually transferred to (alk-3-enyloxy)acrylates, which form a related oxonium ion upon treatment with acids. The scope and utility of this modification of the Prins-type cyclization of oxonium ions is discussed exemplarily by means of the syntheses of ten tetrahydro-2H-pyran and THF derivs., featuring diverse substitution patterns as well as different degrees of mol. complexity. These target structures include (\pm)-Et (2RS)-2-[(2RS,4SR,6RS)- and (2SR,4RS,6SR)-2-tetrahydro-4-hydroxy-6-methylpyran-2-yl]propanoate, (\pm)-Et [(2RS,3RS)-tetrahydro-3-isopropenylfuran-2-yl]acetate, (\pm)-Et (2Z)-3-(tetrahydro-2,2-dimethylfuran-3-yl)acrylate, (\pm)-(3aRS,6RS,7aRS)-octahydro-7a-methylbenzofuran-6-yl formate, (\pm)-Et (2RS,3RS,4aRS,8SR,8aRS)-hexahydro-2,5,5,8-tetramethyl-7-oxo-2H,5H-pyran- [4,3-b]pyran-3-carboxylate, and (\pm)-Et (2RS,3RS,6SR)-tetrahydro-6-(2-methoxy-2-oxoethyl)-3-methyl-2H-pyran-2-carboxylate. Besides the stereochem. and mechanistic details of this versatile oxonium-ion cyclization, the synthesis of suitable starting materials is also described.

REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L45 ANSWER 5 OF 6 HCPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1997:25885 HCPLUS Full-text
 DOCUMENT NUMBER: 126:74626
 ORIGINAL REFERENCE NO.: 126:14441a,14444a
 TITLE: Our tactics in ring enlargement. Construction of medium and large ring compounds
 AUTHOR(S): Tochtermann, Werner; Kraft, Philip
 CORPORATE SOURCE: Inst. Org. Chem., Univ. Kiel, Kiel, D-24098, Germany
 SOURCE: Synlett (1996), (11), 1029-1035
 CODEN: SYNLES; ISSN: 0936-5214
 PUBLISHER: Thieme
 DOCUMENT TYPE: Journal; General Review
 LANGUAGE: English
 AB A review with 59 refs. on the authors tactics in the synthesis of medium and large ring compds. First the application of an oxanorbornadiene-oxepine ring enlargement to the synthesis of a [6]paracyclophe, of hydroazulenes, and bridged furanosides is described. Transformations of the Diels-Alder adduct of cyclooctyne and furan led to the synthesis of (-)-muricatacin and guided the way into fragrance chemical. Finally the stereoselective synthesis of macrocyclic odorants by way of ring enlargement of cycloalkanones with chiral building blocks is highlighted.

L45 ANSWER 6 OF 6 HCPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1994:700497 HCPLUS Full-text
 DOCUMENT NUMBER: 121:300497
 ORIGINAL REFERENCE NO.: 121:55001a,55004a
 TITLE: Synthesis of medium and large ring compounds. XXXVII. Synthesis and olfactory properties of (Z)-5,6-dimethylcyclododec-5-en-1-one and (Z)-(\pm)-5,6-dimethylcyclododec-5-en-1-ol
 AUTHOR(S): Kraft, Philip; Tochtermann, Werner
 CORPORATE SOURCE: Inst. fuer Organische Chem., Universitaet Kiel, Kiel, D-24098, Germany
 SOURCE: Liebigs Annalen der Chemie (1994), (8), 827-30
 CODEN: LACHDL; ISSN: 0170-2041

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 121:300497

AB According to mol. modeling calcns. the title compound 13 should fit the olfactory receptor of trans-10-ethyltetrahydroionol (1). In order to check this prediction the target mol. 13 and ketone 12 have been synthesized by starting from cyclooctyne and furan. Cleavage of the oxanorbornene bridge of the selectively hydrogenated Diels-Alder adduct 5 with LTBAH/triethylborane, oxidation, epoxidn. and α, β -epoxyketone \rightarrow alkynone fragmentation result in a ring enlargement of cyclooctyne by an oxotetramethylene unit. Key reaction is the diboration of cycloalkynone 9 followed by a Suzuki coupling with iodomethane. Reduction of ketone 12 gives the desired dimethylcyclododecenol 13, which possesses only a weak cedarwood note. In contrast, the corresponding ketone 12 has an intensive odor described as dry, cedarwood-like with interesting cooling animal facets.

=> d his ful

(FILE 'HOME' ENTERED AT 11:48:08 ON 24 DEC 2008)

FILE 'REGISTRY' ENTERED AT 11:48:17 ON 24 DEC 2008

L1 STR
 L3 1749 SEA SSS FUL L1
 L4 STR
 L5 28 SEA SUB=L3 SSS FUL L4

FILE 'HCAPLUS' ENTERED AT 11:55:55 ON 24 DEC 2008

L9 15 SEA ABB=ON PLU=ON L5
 L10 477297 SEA ABB=ON PLU=ON ("ODOR AND ODOROUS SUBSTANCES"/CV OR
 "ODOROUS SUBSTANCES"/CV OR ODORS/CV) OR ("AIR FRESHENERS"/CV
 OR "COSMETICS AND PERSONAL CARE PRODUCTS"/CV OR DEODORIZATION/C
 V OR ESSENCES/CV OR FLAVOR/CV) OR 320 OR ?FRAGR? OR ?ODOR? OR
 COSMETIC OR SHAMPOO OR DETERGEN? OR PERFUME OR CLEANER OR
 LAUNDRY
 L11 3 SEA ABB=ON PLU=ON L9 AND L10
 D STAT QUE L11
 D IBIB ABS HITSTR L11 1-3
 L12 12 SEA ABB=ON PLU=ON L9 NOT L11
 D STAT QUE L12
 D IBIB ABS HITSTR L12 1-12

FILE 'REGISTRY' ENTERED AT 11:58:41 ON 24 DEC 2008

L13 1721 SEA ABB=ON PLU=ON L3 NOT L5

FILE 'HCAPLUS' ENTERED AT 11:59:07 ON 24 DEC 2008

L14 1893 SEA ABB=ON PLU=ON L13
 S L1(L) L10
 L37 94 SEA ABB=ON PLU=ON KRAFT PHILIP ?/AU OR KRAFT P/AU OR KRAFT P
 ?/AU OR KRAFT PHILIP/AU
 L38 0 SEA ABB=ON PLU=ON L37 AND L14
 L43 8 SEA ABB=ON PLU=ON L37 AND ?FURAN?
 L44 6 SEA ABB=ON PLU=ON L43 NOT (L11 OR L12)
 L45 6 SEA ABB=ON PLU=ON L38 OR L44
 D STAT QUE L45
 D IBIB ABS HITSTR L45 1-6

FILE HOME

FILE REGISTRY

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DICTIONARY FILE UPDATES: 22 DEC 2008 HIGHEST RN 1088779-12-7

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FILE LAST UPDATED: 23 Dec 2008 (20081223/ED)

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